48UA/UH

Packaged Rooftop Cooling/ Heat Pump and Gas Heating Units

PRO-DIALOG

User manual

INTRODUCTION

This document contains instructions for the use and maintenance of your packaged rooftop gas heating unit.

The gas heating system is designed to be used as an alternative to the hot-water coil or electric heating options. The rooftop unit is available with three gas heating modules with two-step heating for natural gas and one-step heating for LPG in 48UA/UH 045-075 series rooftop units. In 48UA/UH 085-120 series rooftop units, two of same modules are working in series with three-step heating for natural gas and two-step heating for LPG.

The 48UA/UH series units are high-efficiency forced convection air heaters designed to provide space heating using an air moving device. The appliances have fully automatic control using the latest electronics. This includes automatic direct burner ignition and operational functions with built-in safety and diagnostic capability.

A Pro-Dialog user interface provides effective visual system status and fault diagnostic indication. A sophisticated optional interface is also available.

The 48UA/UH series units are available with the following heat output capabilities:

Model	**48UA/UH 045**		**48UA/UH 055**		**48UA/UH 065**		**48UA/UH 075**		**48UA/UH 085**		**48UA/UH 100**		**48UA/UH 120**	
Gas modules	1	1	1	1	1	1	1	1	2	2	2	2	2	2
Heating elements	5	6	5	6	6	7	6	7	10	12	10	12	12	14
Maximum heating output (kW)														
Natural gas	46.8	61.8	46.8	61.8	61.8	72.9	61.8	72.9	93.6	125.0	93.6	125.0	125.0	147.4
LP gas	53.2	63.9	53.2	63.9	63.9	74.5	63.9	74.5	105.2	127.8	105.2	127.8	127.8	150.7

SAFETY

The appliance is intended for outdoor installation and use only.

Read this document carefully before using unit. This will ensure long-term and safe use of your unit.

After installation and commissioning, the authorised dealer and service engineer will inform you about the use and maintenance of the unit. They will answer any question to ensure that you are fully familiar with this unit.

Read these user manual instructions and any user labels care-fully before attempting to operate the appliance.

Comply with all applicable warnings.

Do not tamper with any sealed components and use the appliance only in accordance with these instructions. Other than the user interface, all compartment panels are only accessible with the aid of a special tool. Only qualified and authorized personnel shall have access to these panels.

Unauthorised adjustment or modification to the appliance could invalidate the certification of the appliance, any warranty or guarantee and is likely to infringe on current issues of statutory requirements.

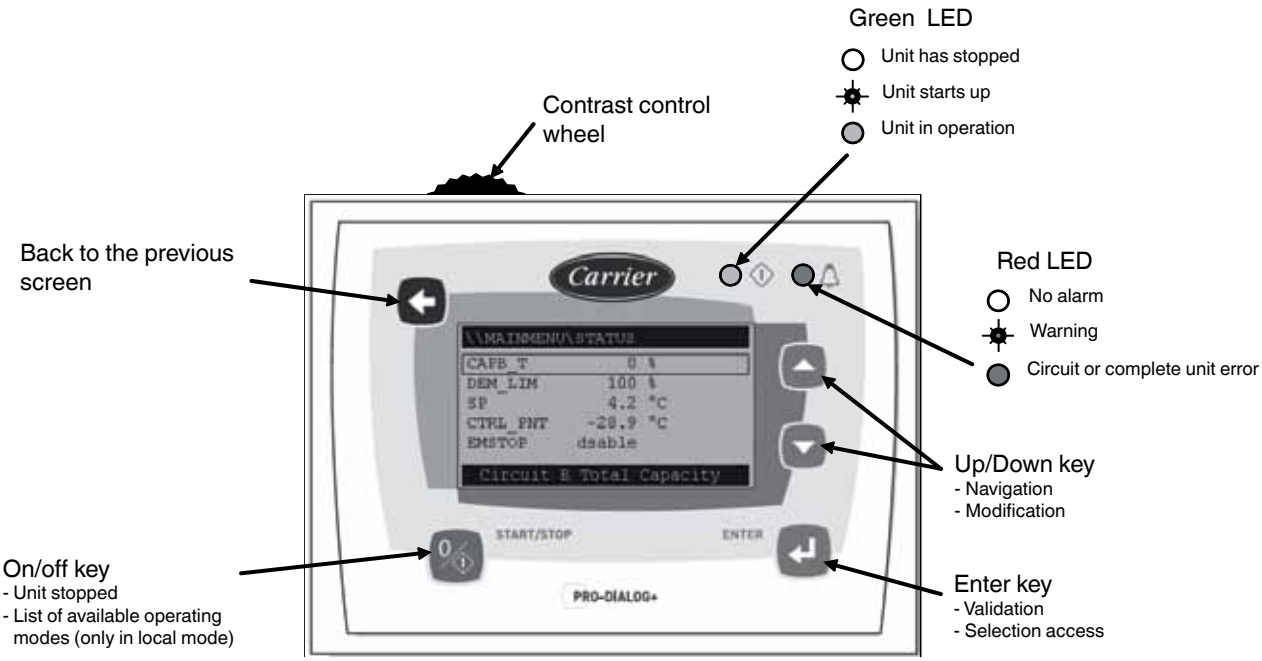
GAS SAFETY

It is the law that all gas appliances must be installed by a com-petent person in accordance with the current rules and regula-tions in force in the country of destination. Failure to install appliances correctly could lead to prosecution. In addition, any gas conversion process or gas valve adjustments carried out on the unit shall be done by a competent and authorised person.

CAUTION: Do not operate any electrical switches or use a naked flame, if you smell gas. Turn off the gas supply. Call your local gas supplier.

WARNINGS

- ***Spaces allowed for installing a gas-fired unit are defined by international and/or local regulations and rules of gas distribution companies. You can obtain detailed information about those limitations from your installer. For your own safety, do not ask the installer to install your unit in prohibited spaces.***
- ***Unauthorised people must not interfere with or service the unit.***
- ***The gas conversion process, if necessary, must be carried out by a competent authorised person.***
- ***Keep liquid or solid flammable and combustible objects away from the unit.***
- ***The unit must only be connected to an earthed 400 V 50 Hz power supply.***
- ***Turn off the gas supply and power to your unit before performing service or maintenance operations.***
- ***Always turn off the gas supply first, before turning off the power to the unit.***



General features, local interface

The interface includes different screens that are listed below:

- Default screens with direct display of the main parameters,
- Menu screens for navigation,
- Data/configuration screens listing the parameters by type,
- Operating mode selection screen,
- Password entry screen,
- Parameter modification screen.

NOTE: If the interface is not used for a long period, it will go black. The control is always active, the operating mode remains unchanged. The interface screen is re-animated, when the user presses a key. Pressing the key once illuminates the screen, pressing the key a second time leads to a screen that is related to the context and the key symbol.

UNIT OPERATION

Lighting the unit

Check that the gas and power supplies to the unit are ON.

Heating operation

If the unit is in local operating mode, press the on/off key (0/1) once to activate the display of the operating mode screen. Select the Local-On mode using the up/down keys and then press “Enter” to confirm.

To start the heating system, first set Pro-Dialog+ control setpoint to call for heating.

The system air distribution fan will now run and the integrated gas controls will start the automatic ignition sequence after getting a call for heating from the Pro-Dialog+ controls.

The Pro-Dialog+ controls will now maintain the set temperature, modulating the heat input to match the heating load.

When the room temperature setpoint is reached, the unit will go to the standby mode

The system air distribution fan will continue to run.

To turn the unit OFF

To turn the unit off for a short time, it can be stopped at any time by pressing the on/off key on the Pro-Dialog interface and then pressing “Enter” to confirm. If it is necessary to turn the unit off for longer, for example when the unit is not required, press the on/off key. It is also recommeded to isolate the gas and power supplies.

FAULT DIAGNOSIS

If the heating section will not operate and the Pro-Dialog user interface indicates an alarm situation via the LED(s), contact your service dealer and request service.

Electrical controls and wiring

Electrical controls are difficult to check without proper instrumentation. If there are any discrepancies in the operating cycle, contact your service dealer and request service.

Combustion area and vent system

The combustion area and vent system should be visually inspected before each heating season. Normal accumulation of dirt, soot, rust and scale can result in loss of efficiency and improper performance, if allowed to build up.

MAINTAINING YOUR UNIT

All maintenance should be handled by skilled, experienced personnel. Your service dealer can help you establish a standard procedure.

For your safety, keep the area around the unit clear and free of combustible materials, gasoline and other flammable liquids and vapours.

To ensure proper functioning of the unit, the combustion flow and ventilating air must not be obstructed from reaching the unit.

Check access and clearance around the unit. Make sure personnel can move freely around the unit.

A minimum two-metre clearance must be left in front of the gas module side.

Routine maintenance and care for the equipment

If it is suspected that there may be a fault with either the system or the unit, do not use the unit until the suspected fault has been investigated and rectified by a competent person.

Turn off the power and gas supply to your unit.

Regular service and maintenance

Your unit should be inspected regularly by a properly trained service technician. An inspection (preferably each year, but at least every other year) is recommended.

Your servicing dealer may offer an economical service contract that covers seasonal inspections. Ask for further details.

Before you call for service, check for several easily solved problems

If insufficient heating or cooling is suspected, the following external (non appliance) inspections can be made:

- Check for sufficient air flow. Check for blocked return or supply air grilles. Be sure they are open and unobstructed. If these checks do not reveal the cause, call your servicing dealer.

If your unit is not operating at all, check the following list for easy solutions:

- Check to be sure that your Pro-Dialog+ control setpoint is set above the indoor temperature during the heating season, or below the indoor temperature during the cooling season.
- Is the power supply to the appliance switched on? Are any external fuses blown or has the external circuit breaker tripped?
- During the heating season, check the isolation shut-off valve. Is this lever parallel with the pipe, indicating that the valve is open? Or is the lever at a right angle, indicating that the valve is closed? If closed, has the gas been shut off for safety reasons? Otherwise, you may open the valve and follow the start-up procedures listed in this manual.
- If your unit still fails to operate, call your service dealer for troubleshooting and repairs. Specify the model and serial numbers of your unit. Record them in this manual in the space provided. If the service dealer knows exactly which unit you have and has the details of the fault experienced, he may be able to suggest reset procedures that can be carried out using the Pro-Dialog interface. Good preparation for the service call will also save valuable time.

In case of a fault

If, after performing the above, unit performance is unsatisfactory, shut off the unit and call your dealer.

Service dealer's name: .....
Telephone No.: .....
Unit model: .....
Unit serial number: .....

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